10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

OAT Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8897a

Specification

OAT Antibody (N-term) - Product Information

Application	**WB, IF, FC, IHC-P,E**
Primary Accession	P04181
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**48535**
Antigen Region	**27-55**

OAT Antibody (N-term) - Additional Information

Gene ID 4942

Other Names
Ornithine aminotransferase, mitochondrial, Ornithine delta-aminotransferase, Ornithine--oxo-acid aminotransferase, Ornithine aminotransferase, hepatic form, Ornithine aminotransferase, renal form, OAT

Target/Specificity
This OAT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 27-55 amino acids from the N-terminal region of human OAT.

Dilution
WB~~1:1000
IF~~1:10~50
FC~~1:10~50
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
OAT Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

OAT Antibody (N-term) - Protein Information

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Name OAT

Function Catalyzes the reversible interconversion of L-ornithine and 2-oxoglutarate to L-glutamate semialdehyde and L-glutamate.

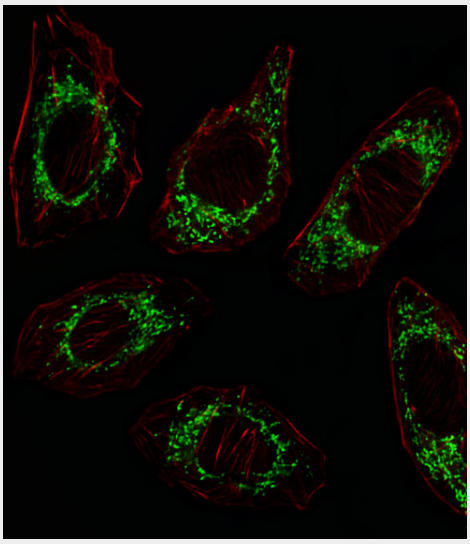
Cellular Location
Mitochondrion matrix

OAT Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

OAT Antibody (N-term) - Images



Fluorescent image of A549 cell stained with OAT Antibody (N-term)(Cat#AP8897a/SA100310AG).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with OAT primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37℃).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37℃).OAT immunoreactivity is localized to Mitochondrion significantly.

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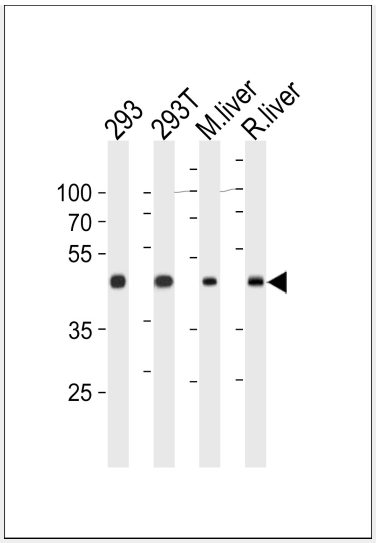
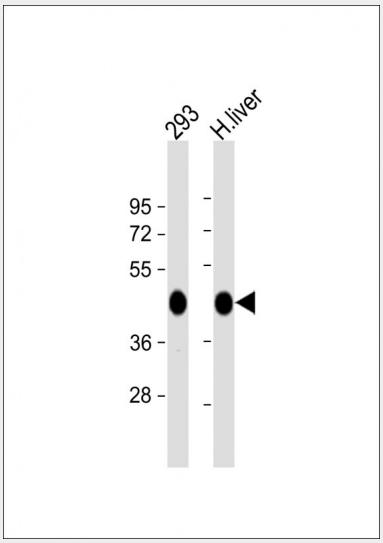


OAT Antibody (N-term) (Cat. #AP8897a) western blot analysis in 293,293T cell line ,mouse liver and rat liver tissue lysates (35ug/lane).This demonstrates the OAT antibody detected the OAT protein (arrow).



All lanes : Anti-OAT Antibody (N-term) at 1:1000 dilution Lane 1: 293 whole cell lysate Lane 2: human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 49 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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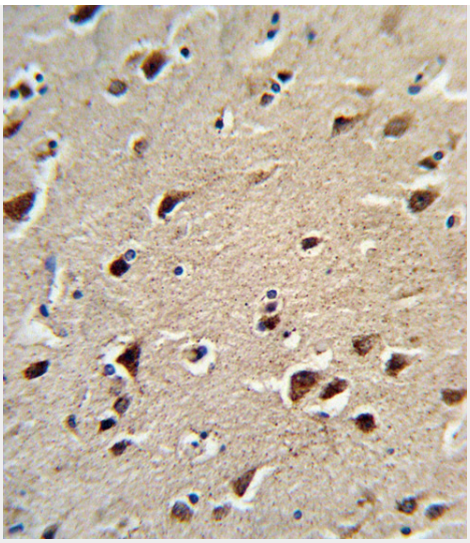
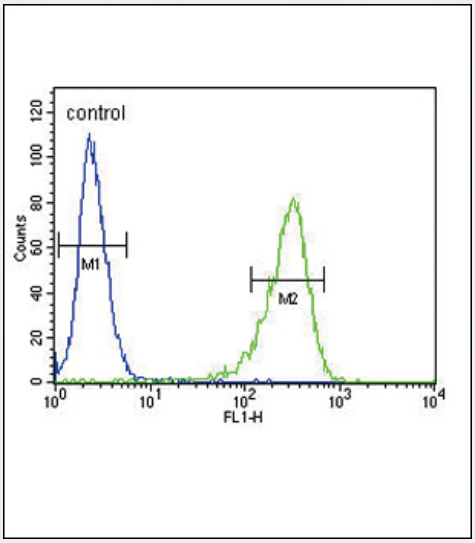


Formalin-fixed and paraffin-embedded human brain tissue reacted with OAT Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



OAT Antibody (N-term) (Cat. #AP8897a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

OAT Antibody (N-term) - Background

OAT is the mitochondrial enzyme ornithine aminotransferase, which is a key enzyme in the pathway that converts arginine and ornithine into the major excitatory and inhibitory neurotransmitters glutamate and GABA.

OAT Antibody (N-term) - References

Michaud J., et.al., Am. J. Hum. Genet. 56:616-622(1995).